

FORM PTO-1440  
(REV.7-80)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.  
690068.405C3APPLICATION NO.  
10/015,540

## INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

## APPLICANTS

Nicholas Ling et al.

## FILING DATE

December 11, 2001

## GROUP ART UNIT

Not Yet Assigned

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>MR</i>	AA	5,288,639	2/22/94	Burnie et al.	435	320.1	
	AB	5,468,481	11/21/95	Sharma et al.	530	402	
	AC	5,559,209	9/24/96	Nishimoto	530	326	
	AD	5,948,764	9/7/99	Gaur et al.	514	14	
<i>MR</i>	AE	6,036,957	3/14/00	Weiner et al.	424	184.1	

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
<i>MR</i>	AF	JP 6157591	6/3/94	Japan		
	AG	EP 304 279 B1	2/22/89	EPO		
	AH	WO 88/00057	1/14/88	WIPO		
	AI	WO 88/10120	12/29/88	WIPO		
<i>MR</i>	AJ	WO 91/12816	9/5/91	WIPO		

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>MR</i>	AK	Abstract 65027 from <i>Biol. Abstr.</i> 81(7): AB-701 (1985) of the article "Monoclonal antibodies to human myelin basic protein," <i>J. Neurochem.</i> 46(1): 47-53, 1985.
	AL	Acha-Orbea et al., "Limited Heterogeneity of T Cell Receptors from Lymphocytes Mediating Autoimmune Encephalomyelitis Allows Specific Immune Intervention," <i>Cell</i> 54: 263-273, 1988.
	AM	Antel et al., "Vaccination with an altered MBP Peptide Induces a Persistent Immune Response," <i>Journal of Neuroimmunology</i> 90(1): p. 18, Abstract No. 80, 1998.
	AN	Arimilli et al., "Identification of Core Structure and Critical T Cell Receptor Contact Residues in an Antigenic Peptide by Measuring Acidification Rates," <i>Journal of Immunological Methods</i> 217: 49-59, 1998.
<i>MR</i>	AO	Ausubel et al., "Changes in Cytokine Secretion Induced by Altered Peptide Ligands of Myelin Basic Protein Peptide 85-99," <i>Journal of Immunology</i> 159: 2502-2512, 1997.

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Sheet 2 of 8

FORM PTO-1449 <small>(REV.7-80)</small> <b>INFORMATION DISCLOSURE STATEMENT</b> <small>(Use several sheets if necessary)</small>				ATTY. DOCKET NO. 690068.405C3	APPLICATION NO. 10/015,540	COPY OF PAPERS ORIGINALLY FILED
				APPLICANTS Nicholas Ling et al.		
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**U.S. PATENT DOCUMENTS**

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					YES	NO
MWS	BA	WO 92/06708	4/30/92	WIPO		
	BB	WO 92/21367	12/10/92	WIPO		
	BC	WO 93/08212	4/29/93	WIPO		
	BD	WO 93/12814	7/8/93	WIPO		
MWS	BE	WO 93/19178	9/30/93	WIPO		

**OTHER PRIOR ART** (Including Author, Title, Date, Pertinent Pages, Etc.)

MWS	BF	Babbitt et al., "Antigenic competition at the level of peptide-Ia-binding," <i>Proc. Natl. Acad. Sci. USA</i> 83: 4509-4513, 1986.
	BG	Bellacosa et al., "A Retroviral Oncogen, <i>akt</i> , Encoding a Serine-Threonine Kinase Containing an SH2-Like Region," <i>Science</i> 254(5029): 274-277, 1991.
	BH	Bernard, "Experimental Autoimmune Encephalomyelitis in Mice: Genetic Control of Susceptibility," <i>Journal of Immunogenetics</i> 3: 263-274, 1976.
	BI	Brocke et al., "In Vitro Proliferative Responses and Antibody Titers Specific to Human Acetylcholine Receptor Synthetic Peptides in Patients with Myasthenia Gravis and Relation to HLA Class II Genes," <i>J. Clin. Invest.</i> 82: 1894-1900, 1988.
	BJ	Brocke et al., "Treatment of experimental encephalomyelitis with a peptide analogue of myelin basic protein," <i>Nature</i> 379: 343-346, 346, 1996.
	BK	Brostoff and Howell, "T Cell Receptors, Immunoregulation, and Autoimmunity," <i>Clinical Immunology and Immunopathology</i> 62(1): 1-7, 1992.
	BL	Carter and Rodriguez, "Immunosuppressive Treatment of Multiple Sclerosis," <i>Mayo Clin. Proc.</i> 64: 664-669, 1989.
	BM	Chou et al., "Identity of Myelin Basic Protein from Multiple Sclerosis and Human Control Brains: Discovery of a Genetic Variant," <i>Journal of Neurochemistry</i> 30: 745-750, 1978.
MWS	BN	Day et al., "The Polyclonal Antibody Responses of Lewis Rats to the Synthetic Encephalitogenic Neuropeptide S55S (Residues 72-84 of Guinea Pig Myelin Basic Protein) and Its Analogs," <i>Journal of Neuroscience Research</i> 18: 214-221, 1987.

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<b>INFORMATION DISCLOSURE STATEMENT</b> <i>(Use several sheets if necessary)</i>		APPLICANTS Nicholas Ling et al.		COPY OF PAPERS ORIGINALLY FILED
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MM	CA	WO 93/21222	10/28/93	WIPO			
	CB	WO 94/06828	3/31/94	WIPO			
	CC	WO 95/08572	3/30/95	WIPO			
	CD	WO 96/12731	5/2/96	WIPO			
MM	CE	WO 96/16085	5/30/96	WIPO			

**OTHER PRIOR ART** *(Including Author, Title, Date, Pertinent Pages, Etc.)*

MM	CF	Einstein et al., "Suppression of Experimental Allergic Encephalomyelitis By Chemically Modified Encephalitogen," <i>Immunochemistry</i> 9: 1013-1019, 1972.
	CG	Evavold and Allen, "Separation of IL-4 Production from Th Cell Proliferation by an Altered T Cell Receptor Ligand," <i>Science</i> 252: 1308-1310, 1991.
	CH	Gammon et al., "Neonatal T-cell tolerance to minimal immunogenic peptides is caused by clonal inactivation," <i>Nature</i> 319: 413-415, 1986.
	CI	Gaur et al., "Amelioration of relapsing experimental autoimmune encephalomyelitis with altered myelin basic protein peptides involves different cellular mechanisms," <i>Journal of Neuroimmunology</i> 74: 149-158, 1997.
	CJ	Gaur et al., "Amelioration of Autoimmune Encephalomyelitis by a Myelin Basic Protein Synthetic Peptide-Induced Anergy," <i>Science</i> 258(5087): 1491-1494, 1992.
	CK	Gautam et al., "A Polyalanine Peptide With only Five Native Myelin Basic Protein Residues Induces Autoimmune Encephalomyelitis," <i>J. Exp. Med.</i> 176: 605-609, 1992.
	CL	Gautam et al., "Inhibition Of Experimental Autoimmune Encephalomyelitis By A Nonimmunogenic Non-Self Peptide That Binds To I-A <sup>u</sup> ," <i>The Journal Of Immunology</i> 148(10): 3049-3054, 1992.
MM	CM	Hadden et al., "Thymic Hormones, Interleukins, Endotoxin and Thymomimetic Drugs in T Lymphocyte Ontogeny," in <i>Advances in Immunopharmacology</i> 3, L. Chedid et al. (Eds.), 1985, pp. 487-497.

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**FOREIGN PATENT DOCUMENTS**

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MN	DA	WO 96/16086	5/30/96	WIPO		
	DB	WO 96/28470	9/19/96	WIPO		
	DC	WO 96/34622	11/7/96	WIPO		
MN	DD	WO 97/35879	10/2/97	WIPO		

**OTHER PRIOR ART** (Including Author, Title, Date, Pertinent Pages, Etc.)

MN	DE	Hashim, "Experimental Allergic Encephalomyelitis: Activation of Suppressor T Lymphocytes by a Modified Sequence of the T Effector Determinant," <i>Journal of Immunology</i> 126(2): 419-423, 1981.
	DF	Hashim and Day, "Synthetic Peptide Analogs to Probe the Immunological Expression of the Rat Encephalitogenic Neuropeptide," <i>Journal of Neuroscience Research</i> 18: 209-213, 1987.
	DG	Hashim et al., "Suppression and Reversal of Allergic Encephalomyelitis in Guinea Pigs with a Non-Encephalitogenic Analogue of the Tryptophan Region of the Myelin Basic Protein," <i>Journal of Immunology</i> 116(1): 126-130, 1976.
	DH	Jahnke et al., "Sequence Homology Between Certain Viral Proteins and Proteins Related to Encephalomyelitis and Neuritis," <i>Science</i> 229: 282-284, 1985.
	DI	Kardys and Hashim, "Experimental Allergic Encephalomyelitis in Lewis Rats: Immunoregulation of Disease By a Single Amino Acid Substitution in the Disease-Inducing Determinant," <i>Journal of Immunology</i> 127(3): 862-866, 1981.
	DJ	Karin et al., "Reversal of Experimental Autoimmune Encephalomyelitis by a Soluble Peptide Variant of a Myelin Basic Protein Epitope: T Cell Receptor Antagonism and Reduction of Interferon $\gamma$ and Tumor Necrosis Factor $\alpha$ Production," <i>J. Exp. Med.</i> 180: 2227-2237, 1994.
	DK	Kira et al., "Experimental Allergic Encephalomyelitis in Rabbits. A Major Encephalitogenic Determinant within Residues 1-44 of Myelin Basic Protein," <i>J. of Neuroimmunol.</i> 12(3): 183-193, 1986.
MN	DL	Kuchroo et al., "A Single TCR Antagonist Peptide Inhibits Experimental Allergic Encephalomyelitis Mediated by a Diverse T Cell Repertoire," <i>Journal of Immunology</i> 153: 3326-3336, 1994.

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MAR 04 2002 <small>(REV. 7-8)</small> <b>U.S. DEPARTMENT OF COMMERCE</b> <b>PATENT AND TRADEMARK OFFICE</b> <b>INFORMATION DISCLOSURE STATEMENT</b> <small>(Use several sheets if necessary)</small>			ATTY. DOCKET NO. 690068.405C3	APPLICATION NO. 10/015,540
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MN	EA	Lamont et al., "Inhibition of Experimental Autoimmune Encephalomyelitis Induction In SJL/J Mice Using A Peptide With High Affinity For IA <sup>s</sup> Molecules," <i>Journal of Immunology</i> 145(6): 1687-1693, 1990.
	EB	Lehninger, "The Amino Acid Building Blocks of Proteins," in <i>Biochemistry</i> , 2 <sup>nd</sup> ed., Worth Publishers, Inc. pp. 71-75, 1975.
	EC	Lindsey et al., "Double-Blind, Randomized, Placebo-Controlled Evaluation of the Safety, Tolerability, and Pharmacokinetics of CGP 77116 in Patients with Multiple Sclerosis," <i>Neurology</i> 50: Abstract 149, 1998.
	ED	Martin et al., "A Myelin Basic Protein Peptide is Recognized by Cytotoxic T Cells in the Context of Four HLA-DR Types Associated with Multiple Sclerosis," <i>Journal of Experimental Medicine</i> 173: 19-24, 1991.
	EE	Martin et al., "Diversity in Fine Specificity and T Cell Receptor Usage of the Human CD4+ Cytotoxic T Cell Response Specific for the Immunodominant Myelin Basic Protein Peptide 87-106," <i>Journal of Immunology</i> 148(5): 1359-1366, 1992.
	EF	Martin et al., "Immunological Aspects of Demyelinating Diseases," <i>Annu. Rev. Immunol.</i> 10: 153-187, 1992.
	EG	Pautot et al., "Leucine aminopeptidase: An inducible component of the defense response in <i>Lycopersicon esculentum</i> (tomato)," <i>Proc. Natl. Acad. Sci. USA</i> 90: 9906-9910, 1993.
	EH	Raine and Stone, "Animal Model for Multiple Sclerosis. Chronic experimental allergic encephalomyelitis in inbred guinea pigs," <i>New York State Journal of Medicine/September</i> : 1693-1697, 1977.
	EI	Rothbard, "Peptides and the Cellular Immune Response," <i>Ann. Inst. Pasteur/Virologie</i> 137 E: 518-526, 1986.
	EJ	Rothbard and Taylor, "A sequence pattern common to T cell epitopes," <i>EMBO J.</i> 7(1): 93-100, 1988.
MN	EK	Rudinger, "Characteristics of the amino acids as components of a peptide hormone sequence," in <i>Peptide Hormones</i> , J. A. Parsons (ed.), University Park Press, Baltimore, pp. 1-7, 1976.

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**FOREIGN PATENT DOCUMENTS**

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				YES NO

**OTHER PRIOR ART** (Including Author, Title, Date, Pertinent Pages, Etc.)

MN	FA	Sakai et al., "Characterization of a major encephalitogenic T cell epitope in SJL/J mice with synthetic oligopeptides of myelin basic protein," <i>Journal of Neuroimmunology</i> 19: 21-32, 1988.
	FB	Sakai et al., "Prevention of experimental encephalomyelitis with peptides that block interaction of T cells with major histocompatibility complex proteins," <i>Proc. Natl. Acad. Sci. USA</i> 86: 9470-9474, 1989.
	FC	Santambrogio et al., "Altered peptide ligand modulation of experimental allergic encephalomyelitis: immune responses within the CNS," <i>Journal of Neuroimmunology</i> 81: 1-13, 1998.
	FD	Seder and Paul, "Acquisition Of Lymphokine-Producing Phenotype By CD4 <sup>+</sup> T Cells," <i>Annu. Rev. Immunol.</i> 12: 635-673, 1994.
	FE	Servis et al., "Two adjacent epitopes on a synthetic dodecapeptide induce lactate dehydrogenase B-specific helper and suppressor T cells," <i>Proc. R. Soc. Lond. B</i> 228: 461-470, 1986.
	FF	Sette et al., "Analysis of lysozyme-specific immune responses by synthetic peptides. I. Characterization of antibody and T cell-mediated responses to the N-terminal peptide of hen egg-white lysozyme," <i>Eur. J. Immunol.</i> 16: 1-6, 1986.
	FG	Sloan-Lancaster and Allen, "Significance of T-cell stimulation by altered peptide ligands in T cell biology," <i>Current Opinion in Immunology</i> 7: 103-109, 1995.
	FH	Sloan-Lancaster et al., "Induction of T-cell anergy by altered T-cell-receptor ligand on live antigen-presenting cells," <i>Nature</i> 363: 156-159, 1993.
	FI	Smilek et al., "A single amino acid change in a myelin basic protein peptide confers the capacity to prevent rather than induce experimental autoimmune encephalomyelitis," <i>Proc. Natl. Acad. Sci. USA</i> 88: 9633-9637, 1991.
	FJ	Sriram et al., "Administration of Myelin Basic Protein-Coupled Spleen Cells Prevents Experimental Allergic Encephalitis," <i>Cellular Immunology</i> 75: 378-382, 1983.
MN	FK	Steinman, "A few autoreactive cells in an autoimmune infiltrate control a vast population of nonspecific cells: A tale of smart bombs and the infantry," <i>Proc. Natl. Acad. Sci. USA</i> 93: 2253-2256, 1996.

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OTHER PRIOR ART (*Including Author, Title, Date, Pertinent Pages, Etc.*)

MN	GA	Steinman, "Autoimmune Disease. Misguided assaults on the self produce multiple sclerosis, juvenile diabetes and other chronic illnesses. Promising therapies are emerging," <i>Scientific American</i> 269(3): 106-114, September 1993.
	GB	Steinman, "Multiple Sclerosis: A Coordinated Immunological Attack against Myelin in the Central Nervous System," <i>Cell</i> 85: 299-302, 1996.
	GC	Steinman et al., "Major T-cell responses in multiple sclerosis," <i>Molecular Medicine Today</i> 1: 79-83, 1995.
	GD	Steinman et al., "Natural occurrence of thymocytes that react with myelin basic protein," <i>Neurology</i> 30(7): 755-759, 1980.
	GE	Steinman et al., "Regulation of autosensitisation to encephalitogenic myelin basic protein by macrophage-associated and soluble antigen," <i>Nature</i> 265: 173-175, 1977.
	GF	Steinman et al., "The Epigenetics Of Multiple Sclerosis: Clues to Etiology and a Rationale for Immune Therapy," <i>Annu. Rev. Neurosci.</i> 17: 247-265, 1994.
	GG	Su et al., "Synthetic Myelin Basic Protein Peptide Analogs Are Specific Inhibitors of Phospholipid/Calcium-Dependent Protein Kinase (Protein Kinase C)," <i>Biochemical and Biophysical Research Communications</i> 134(1): 78-84, 1986.
	GH	Talmadge et al., "Screening Models for Biological Response Modifiers," in <i>13<sup>th</sup> International Congress of Chemotherapy. Symposium, Biological Responses Modifiers; SY 64 part 203</i> , Vienna 8/28-9/2, 1993, pp. 203/19-203/34.
.	GI	Teitelbaum et al., "Specific inhibition of the T-cell response to myelin basic protein by the synthetic copolymer Cop 1," <i>Proc. Natl. Acad. Sci. USA</i> 85: 9724-9728, 1988.
	GJ	Vogt et al., "Ligand Motifs of HLA-DRB5*0101 and DRB1*1501 Molecules Delineated from Self-Peptides," <i>Journal of Immunology</i> 153: 1665-1673, 1994.
	GK	Weigle, "Analysis of Autoimmunity through Experimental Models of Thyroiditis and Allergic Encephalomyelitis," <i>Advances In Immunology</i> 30: 159-273, 1980.
MN	GL	Wisniewski and Keith, "Chronic Relapsing Experimental Allergic Encephalomyelitis: An Experimental Model of Multiple Sclerosis," <i>Ann. Neurol.</i> 1: 144-148, 1977.

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MW	HA	Wraith et al., "Antigen Recognition in Autoimmune Encephalomyelitis and the Potential for Peptide-Mediated Immunotherapy," <i>Cell</i> 59: 247-255, 1989.
	HB	Wraith et al., "T Cell Recognition as the Target for Immune Intervention in Autoimmune Disease," <i>Cell</i> 57: 709-715, 1989.
	HC	Wucherpfennig et al., "Structural Requirements for Binding of an Immunodominant Myelin Basic Protein Peptide to DR2 Isotypes and for Its Recognition by Human T Cell Clones," <i>J. Exp. Med.</i> 179: 279-290, 1994.
	HD	Zamvil and Steinman, "The T Lymphocyte in Experimental Allergic Encephalomyelitis," <i>Annu. Rev. Immunol.</i> 8: 579-621, 1990.
	HE	Zamvil et al., "Multiple Discrete Encephalitogenic Epitopes of the Autoantigen Myelin Basic Protein Include a Determinant for I-E Class II Restricted T Cells," <i>J. Exp. Med.</i> 168: 1181-1186, 1988.
	HF	Zamvil et al., "T-cell clones specific for myelin basic protein induce chronic relapsing paralysis and demyelination," <i>Nature</i> 317: 355-358, 1985.
	HG	Zamvil et al., "Encephalitogenic T Cell Clones Specific for Myelin Basic Protein," <i>J. Exp. Med.</i> 162: 2107-2124, 1985.
	HH	Zamvil et al., "T-cell epitope of the autoantigen myelin basic protein that induces encephalomyelitis," <i>Nature</i> 324: 258-260, 1986.
MW	HI	Zamvil et al., "T-cell Specificity for Class II(I-A) and the Encephalitogenic N-Terminal Epitope of the Autoantigen Myelin Basic Protein," <i>Journal of Immunology</i> 139(4): 1075-1079, 1987.
	HJ	
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